

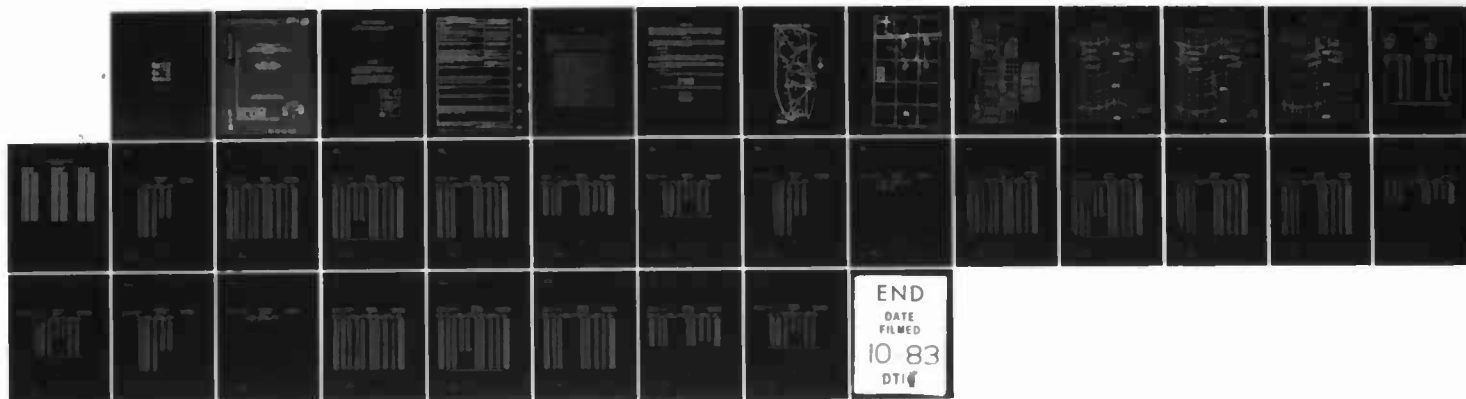
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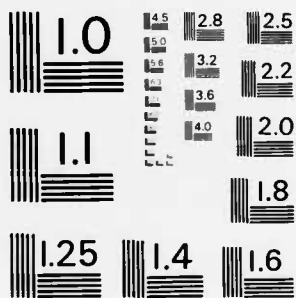
19316A MLRS MISSILE NUMBERS FV3-30 FV3-12 FV3-05 ROUND  
NUMBERS 497/AT2-49.. (U) ARMY ELECTRONICS RESEARCH AND  
DEVELOPMENT COMMAND WSMR NM ATM.. D C KELLER AUG 83  
ERADCOM/ASL-DR-1314 F/G 4/2

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Aug 83

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METEOROLOGICAL DATA REPORT

19316A MLRS

Missile Number FV3-30, FV3-12, FV3-05

Round Number 497/AT2-49, 498/AT2-50, 499/AT2-51

3 August 1983

by

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AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19316A MLRS, Missile Number FV3-30, FV3-12, FV3-05, Round Number 497/AT2-49, 498/AT-2-50, 499/AT2-51 are presented in tabular form.		

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## INTRODUCTION

19316A MLRS, Missile Numbers FV3-30, FV3-12 and FV3-05, Round Numbers 497/AT2-49, 498/AT2-50 and 499/AT2-51, were launched from Brillo, White Sands Missile Range (WSMR), New Mexico, at 0947:38, 1002:16 and 1015:54 MDT, 3 Aug 83. The scheduled launch times were 0930, 0940 and 0950 MDT.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), wind direction and speed, and cloud cover were made at the Brillo Met Site at T-0 Minutes.

(2) Anemometer data were provided from existing tower-mounted anemometers at Brillo. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from Pilot-balloon observations at:

#### SITE AND ALTITUDE

D 3½ 2000 meters

MAL 1550 meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

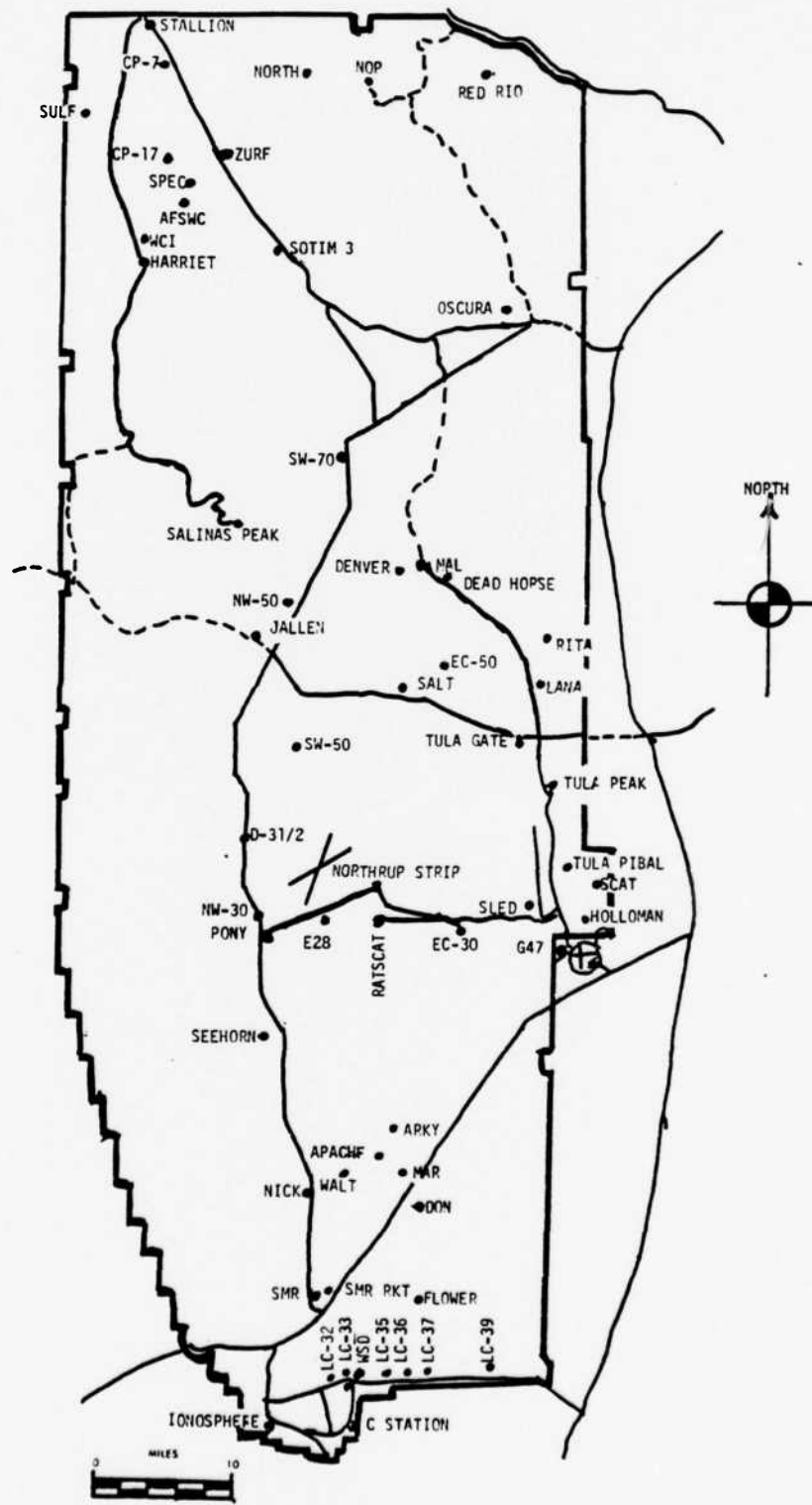
#### SITE AND TIME

E-28 0655 MDT

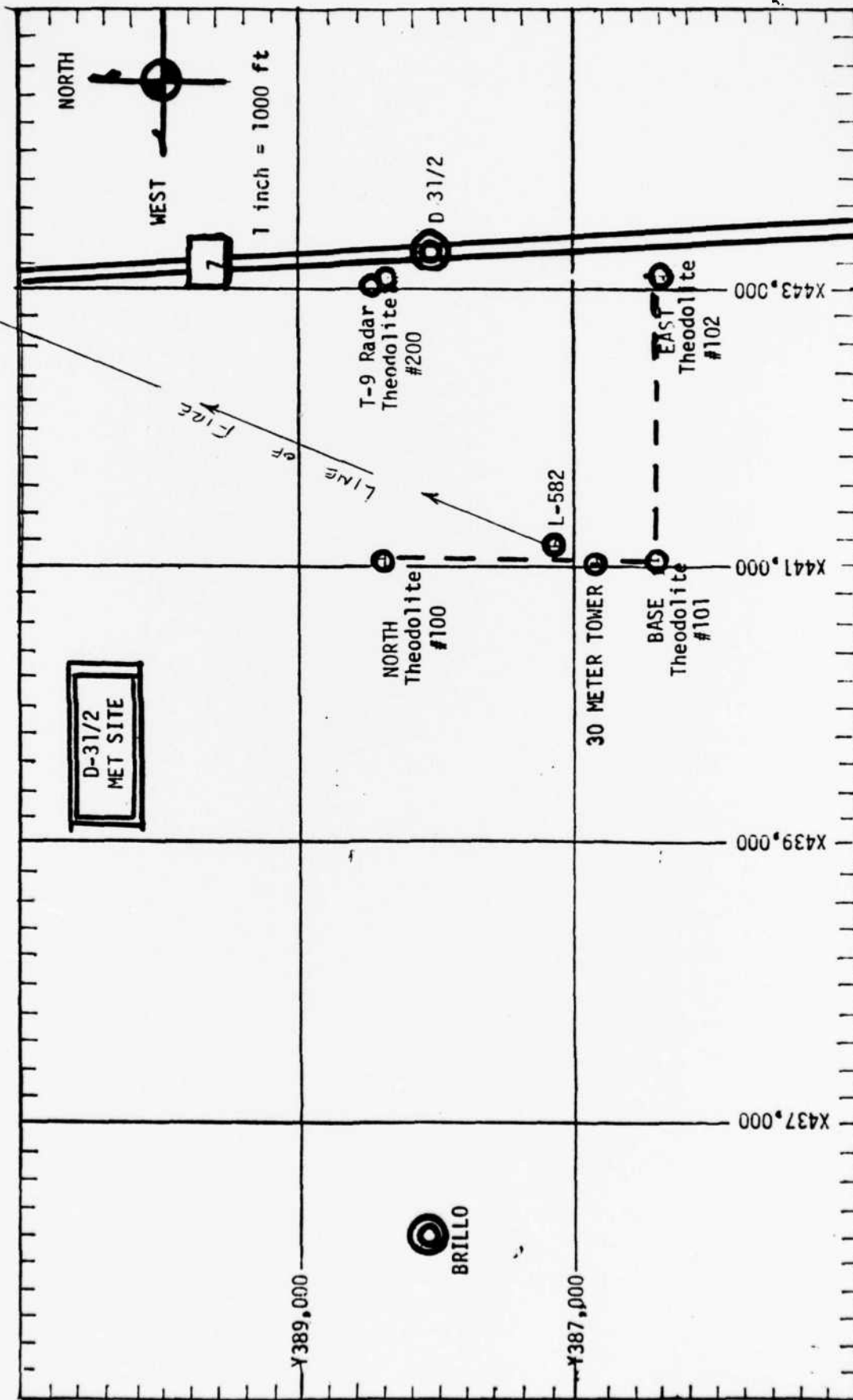
JALLEN 0655 MDT

E-28 1004 MDT

# WSMR METEOROLOGICAL SITES







# PROJECT SURFACE OBSERVATION

TABLE 1									
STATION <u>Brillo</u>									
DATE <u>03</u>		<u>Aug</u>		<u>83</u>		<u>X= 443,093.12</u>		<u>Y= 386,316.94 H= 3962.25</u>	
TIME <u>MDT</u>		PRESSURE <u>mbars</u>		TEMPERATURE <u>°C</u>		DEW POINT <u>°C</u>		RELATIVE HUMIDITY <u>%</u>	

Anemometer Data - 30 FT. Level of 30 Meter Tower

1016 MDT

1004 MDT

0947 MDT

1000

0900

0800

MPH X .87 = KTS

MILES PER HOUR

TABLE 3

Anemometer Data - 60 FT. Level of 30 Meter Tower

X= 441,018.71 Y= 386,849.19 H= 4,004.80 (BASE)

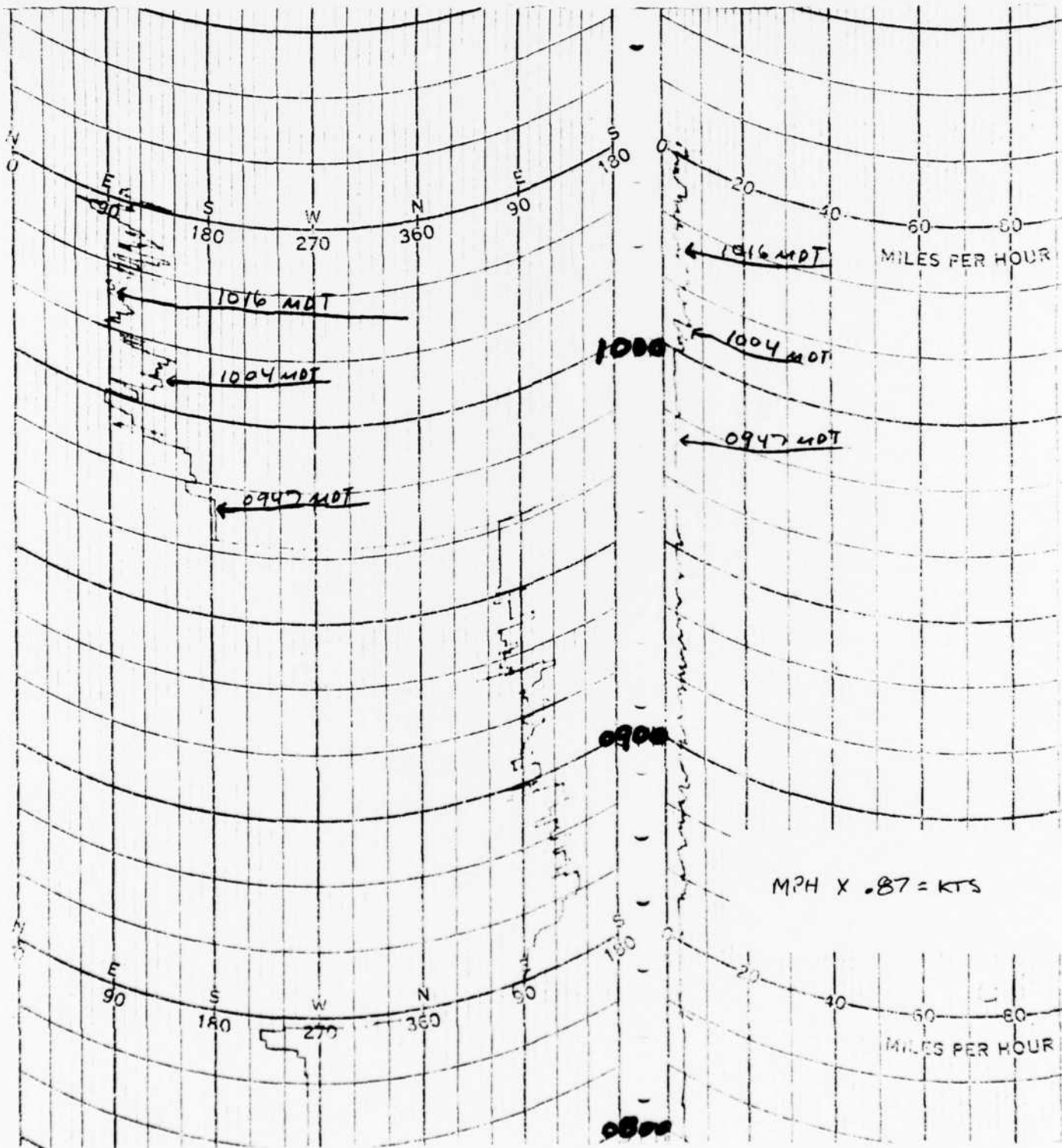


TABLE 4

Anemometer Data - 90 FT Level of 30 Meter Tower

X= 441,018.71 Y= 336,849.19 H= 4,004.80 (BASE)

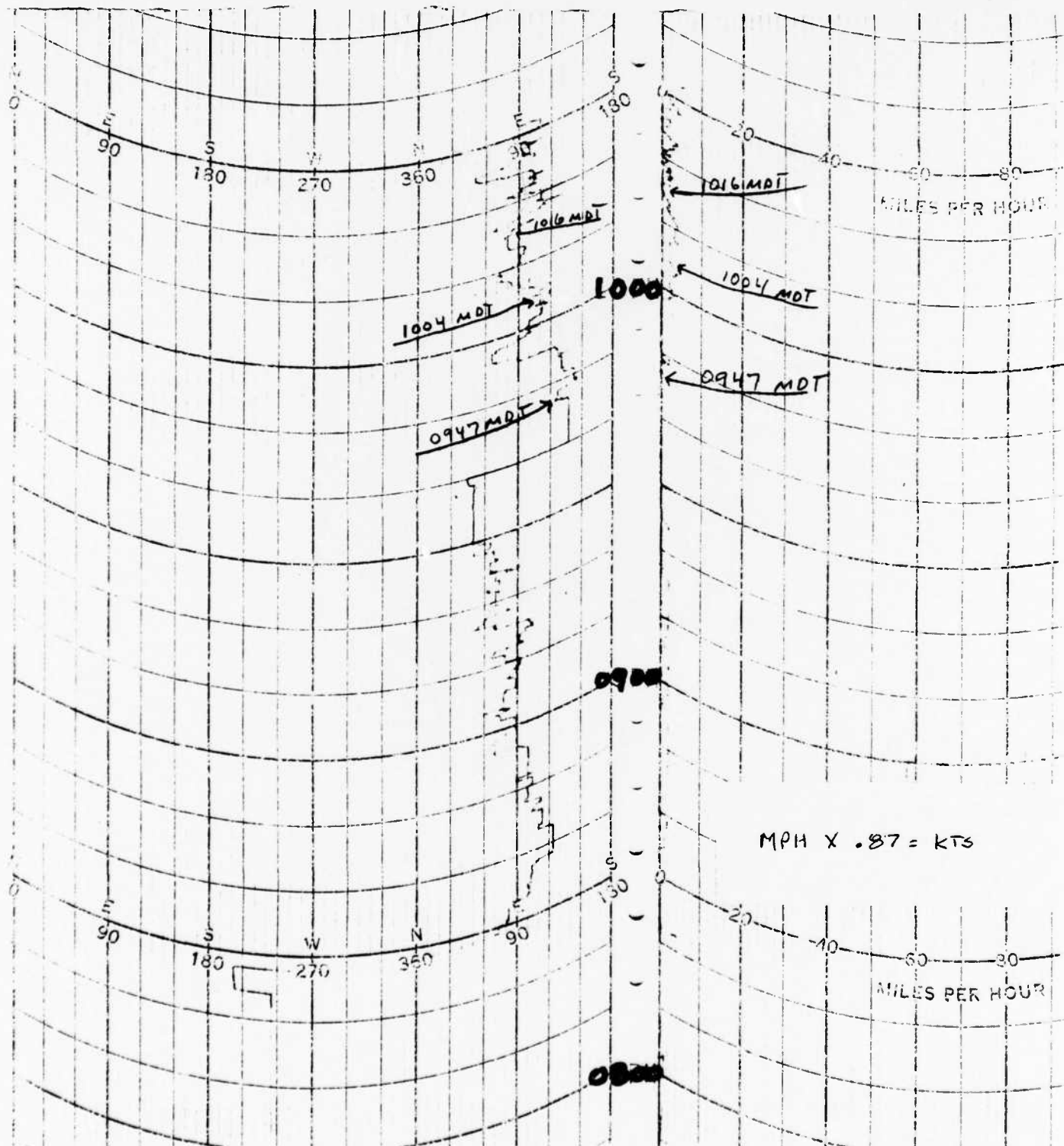


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 3 Aug 83

SITE: D 3½  
 TIME: 1011 MDT  
 WSTM COORDINATES:  
 X= 443,093.12  
 Y= 386,316.94  
 H= 3,962.25

SITE: MAL  
 TIME 0950 MDT  
 WSTM COORDINATES:  
 X= 509,421.05  
 Y= 495,563.18  
 H= 4,126.81

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE		CALM
150	146	03
210	148	03
270	150	03
330	145	03
390	143	04
500	143	04
650	159	04
800	169	07
950	172	09
1150	191	07
1350	224	06
1550	235	06
1750	267	04
2000	305	04

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE		CALM
150	289	03
210	296	04
270	300	03
330	307	03
390	317	02
500	002	01
650	065	02
800	227	03
950	181	04
1150	180	09
1350	182	09
1550	210	08
1750		MISG
2000		MISG

All data obtained from double Theodolite Tracked pilot-balloon observations.

TABLE 6

## AIMING AND T-TIME COMPUTER MET MESSAGES

3 August 1983

E-28 0655 MDT

METCM1329065

031290119887

00604002 29900887

01629005 29930877

02597004 29780852

03301003 29490814

04338005 29130768

05374003 28740724

06640004 28370682

07640004 28020642

08638009 27670604

09619008 27360568

10530002 27080533

11622004 26720501

12027009 26320454

13044012 25670399

14070011 24990349

15073012 24230304

16080016 23410263

17109021 22550227

18111025 21630195

19108024 20970166

20179006 20650141

21094010 20180119

22129021 20330101

23190020 20600086

24179016 20830073

25145023 21220062

26149021 21530053

JALLEN 0655 MDT

METCM1332065

031290124882

00000000 29640882

01319006 29760872

02635004 29680847

03155002 29400809

04493010 29050763

05442004 28670719

06538004 28270677

07630010 27810637

08608012 27570599

09620009 27330563

10630007 27060529

11593004 26700496

12626005 26250451

13030012 25690395

14031013 24970345

15046014 24130301

16072013 23300260

17108022 22440224

18102027 21600192

19116026 20980164

20234008 20550139

21142006 20090118

22122023 20370099

23176024 20690084

24179014 20910072

25145021 21210061

26128015 21410052

E-28 1004 MDT

METCM1329065

031610119888

00111111 30610888

01092003 30160878

02153003 29900853

03286003 29610815

04333005 29250769

05402005 28840725

06581003 28450683

07021006 28100643

08061001 27730605

09000000 27380569

10568002 27040534

11552006 26780502

12596007 26330456

13059014 25700400

14091014 25000349

15086014 24480305

16100021 23460264

17101024 22570228

18105027 21720196

19122021 21210167

20167010 20670142

21126016 20200120

22156023 20380102

23210013 20650086

24158022 21080073

25187025 21350062

26181018 21550053

STATION ALTITUDE 3912.75 FEET MSL  
 3 AUG. 83 0655 MDT  
 ASCENSION NO. 43

SIGNIFICANT LEVEL DATA  
 2150290043  
 EAST-28/CHEMRY  
 TABLE 7

GEODETTIC COORDINATES  
 32.89927 LAT DEG  
 136.40591 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MIL. FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
897.1	3912.7	23.8	14.2	55.0
881.1	4108.2	24.4	15.3	57.0
850.0	5140.5	22.4	12.9	55.0
762.1	8230.1	16.4	6.0	50.0
706.0	10505.9	10.7	4.4	65.0
612.9	14105.1	3.3	2.0	91.0
592.3	15095.3	1.1	.7	97.0
551.7	17033.9	-3.2	-3.6	97.0
516.2	18702.5	-5.3	-5.6	98.0
500.0	19525.3	-6.6	-9.3	81.0
487.0	20201.7	-7.9	-8.4	96.0
463.4	21469.7	-9.7	-10.0	98.0
432.6	23209.2	-12.6	-10.4	73.0
417.8	24082.1	-14.0	-17.6	74.0
407.2	24722.2	-16.0	-19.7	73.0
400.0	25164.2	-16.8	-21.0	70.0
386.1	26036.1	-18.3	-29.6	36.0
357.9	27887.2	-21.8	-36.8	24.0
347.2	28620.3	-23.5	-37.5	20.0
318.2	30699.7	-28.4	-37.5	41.0
300.0	32081.4	-31.5	-38.6	48.0
263.3	35075.5	-39.1	-46.7	44.0
250.0	36238.7	-42.0		
240.0	37144.2	-44.5		
200.0	41070.6	-54.0		
176.7	43646.0	-61.6		
167.7	44700.8	-63.9		
154.3	46388.7	-64.6		
150.0	46958.6	-64.1		
120.7	49853.3	-70.0		
119.7	51416.8	-72.9		
111.3	52834.8	-70.0		
100.0	54239.3	-69.5		
70.0	62053.5	-64.2		
66.7	63029.6	-64.1		
60.1	65160.4	-59.4		
50.0	68905.4	-57.2		
37.7	74918.3	-55.0		



STATION ALTITUDE 3412.75 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 43

UPPER AIR DATA  
2150290043  
FAST-28/CHEERY  
TABLE 8

GEODETIK COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION	
3412.7	807.1	23.8	14.2	55.0	1033.5	673.7	340.0	1.9	1.000300
4000.0	884.4	24.1	14.7	55.9	1029.2	674.1	340.0	2.1	1.000301
4500.0	869.2	23.6	14.4	56.2	1012.9	673.6	340.2	2.7	1.000297
5000.0	854.2	22.7	13.2	55.3	999.1	672.3	340.3	3.4	1.000289
5500.0	839.3	21.7	12.1	54.4	985.3	671.1	335.2	2.2	1.000281
6000.0	824.6	20.7	11.0	53.6	971.6	669.9	181.8	1.0	1.000274
6500.0	810.1	19.0	9.9	52.8	958.0	668.7	174.2	4.9	1.000267
7000.0	796.0	18.0	8.7	52.0	944.7	667.4	175.1	6.1	1.000261
7500.0	782.0	17.8	7.6	51.2	931.5	666.2	180.7	5.1	1.000254
8000.0	768.3	16.8	6.5	50.4	918.6	665.0	189.1	4.6	1.000248
8500.0	754.7	15.7	5.8	51.7	905.8	663.7	190.8	4.5	1.000244
9000.0	741.2	14.5	5.6	54.9	893.4	662.3	200.6	5.0	1.000241
9500.0	728.0	13.3	5.3	58.1	881.1	660.9	207.0	3.6	1.000237
10000.0	715.0	12.1	4.9	61.3	869.1	659.5	228.3	1.8	1.000234
10500.0	702.2	10.9	4.5	64.5	857.2	658.1	312.6	1.4	1.000231
11000.0	689.4	9.0	4.2	68.0	844.8	656.9	350.6	2.8	1.000227
11500.0	676.8	8.8	4.0	71.6	832.3	655.7	12.2	4.3	1.000224
12000.0	664.4	7.8	3.7	75.2	820.1	654.5	21.2	4.6	1.000221
12500.0	652.2	6.0	3.4	78.0	808.1	653.3	15.0	4.5	1.000210
13000.0	640.3	5.7	3.0	82.4	796.3	652.1	357.0	4.4	1.000214
13500.0	628.6	4.7	2.6	86.1	784.6	650.8	350.3	5.8	1.000211
14000.0	617.1	3.7	2.1	89.7	773.2	649.6	349.1	7.4	1.000208
14500.0	605.7	2.5	1.5	93.1	762.1	648.2	357.0	8.3	1.000204
15000.0	594.4	1.3	.8	96.4	751.3	646.8	359.6	9.1	1.000200
15500.0	583.3	.5	.1	97.0	739.6	645.7	359.1	9.5	1.000196
16000.0	572.3	-.3	-.7	97.0	727.8	644.8	350.6	0.2	1.000192
16500.0	561.5	-1.0	-1.4	97.0	716.1	643.8	340.3	6.5	1.000180
17000.0	550.9	-1.8	-2.2	97.0	704.7	642.9	342.8	4.1	1.000184
17500.0	540.5	-2.5	-3.0	97.0	693.5	642.0	308.4	2.6	1.000180
18000.0	530.3	-3.4	-3.8	97.1	682.6	640.9	292.6	1.4	1.000176
18500.0	520.2	-4.7	-5.0	97.7	673.2	639.2	327.4	2.0	1.000172
19000.0	510.3	-5.0	-6.9	91.9	663.0	637.9	343.1	3.1	1.000167
19500.0	500.5	-6.6	-9.2	81.5	652.5	636.8	350.1	4.4	1.000162
20000.0	490.8	-7.5	-10.6	91.5	642.1	635.7	353.0	5.2	1.000160
20500.0	481.3	-8.3	-10.8	96.5	631.6	634.8	355.0	5.9	1.000158
21000.0	472.0	-9.0	-10.4	97.3	621.1	633.9	2.6	6.3	1.000155
21500.0	462.8	-9.0	-10.1	97.6	610.7	633.0	10.1	7.1	1.000152
22000.0	453.8	-10.6	-11.0	90.4	600.8	631.9	17.2	8.7	1.000147
22500.0	444.9	-11.4	-11.7	83.2	591.1	630.8	20.9	10.0	1.000143
23000.0	436.2	-12.3	-15.6	76.0	581.5	629.8	23.1	11.0	1.000140

STATION ALTITUDE 3912.75 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 43

UPPER AIR DATA  
2150290043  
EAST-28/CILIRRY  
TABLE 8 Cont'd

GEODETIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	427.6	-13.1	-16.8	73.3	571.9	628.7	25.9	1.000137
24000.0	419.2	-13.9	-17.5	73.9	562.4	627.7	27.1	1.000134
24500.0	410.8	-15.3	-19.0	73.3	554.4	626.0	25.8	1.000131
25000.0	402.7	-16.5	-20.5	71.1	545.9	624.5	23.2	1.000128
25500.0	394.5	-17.4	-23.8	56.9	537.0	623.3	20.6	1.000125
26000.0	386.7	-18.2	-20.2	37.4	528.1	622.2	23.1	1.000121
26500.0	378.8	-19.2	-31.3	33.0	519.4	621.0	27.7	1.000118
27000.0	371.1	-20.1	-33.2	29.8	510.6	619.8	33.9	1.000116
27500.0	363.6	-21.1	-35.2	26.5	502.4	618.6	36.5	1.000114
28000.0	356.2	-22.1	-36.9	24.3	494.1	617.4	30.2	1.000112
28500.0	348.9	-23.2	-37.4	25.7	486.2	616.0	39.0	1.000110
29000.0	341.7	-24.4	-37.3	28.7	478.4	614.5	40.3	1.000108
29500.0	334.6	-25.6	-37.2	32.3	470.7	613.1	42.2	1.000106
30000.0	327.7	-26.8	-37.3	36.0	463.1	611.6	47.5	1.000105
30500.0	320.9	-27.9	-37.4	39.6	455.7	610.1	53.8	1.000103
31000.0	314.2	-29.1	-37.7	42.5	448.3	608.7	53.0	1.000101
31500.0	307.5	-30.2	-38.2	45.1	440.8	607.3	50.2	1.000100
32000.0	301.0	-31.3	-38.7	47.6	433.5	605.9	37.3	1.000098
32500.0	294.6	-32.6	-39.9	47.4	426.4	604.3	26.9	1.000096
33000.0	288.2	-33.8	-41.2	46.8	419.5	602.7	24.7	1.000095
33500.0	282.0	-35.1	-42.5	46.1	412.6	601.1	30.5	1.000093
34000.0	275.9	-36.4	-43.9	45.4	405.9	599.5	40.1	1.000091
34500.0	270.0	-37.6	-45.2	44.8	399.3	597.9	43.4	1.000090
35000.0	264.2	-38.9	-46.5	44.1	392.8	596.3	45.4	1.000088
35500.0	258.4	-40.2	-51.6	27.9**	386.3	594.7	46.2	1.000086
36000.0	252.7	-41.4	-61.6	9.0**	379.8	593.1	49.3	1.000085
36500.0	247.1	-42.7			373.5	591.4	52.8	1.000083
37000.0	241.6	-44.1			367.4	589.6	56.8	1.000082
37500.0	236.1	-45.4			361.1	587.9	59.9	1.000080
38000.0	230.7	-46.7			354.9	586.2	61.4	1.000079
38500.0	225.4	-48.1			348.6	584.5	62.5	1.000078
39000.0	220.2	-49.4			342.8	582.8	63.4	1.000076
39500.0	215.2	-50.7			336.9	581.1	63.7	1.000075
40000.0	210.2	-52.0			331.1	579.4	63.7	1.000074
40500.0	205.4	-53.3			325.5	577.7	63.4	1.000072
41000.0	200.7	-54.6			319.9	575.9	62.9	1.000071
41500.0	196.0	-55.9			314.3	574.2	62.5	1.000070
42000.0	191.3	-57.2			308.7	572.4	62.4	1.000069
42500.0	186.7	-58.6			303.2	570.7	61.1	1.000068
43000.0	182.3	-59.9			297.8	568.9	59.0	1.000066

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3912.75 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 43

UPPER AIR DATA  
2150290043  
FAST-28/CHERRY  
TABLE 8 Cont'd

GEODETIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.9	-61.2		292.5	567.2	57.3	28.5	1.000065
44000.0	173.7	-62.4		297.0	565.6	55.9	29.8	1.000064
44500.0	169.4	-63.4		201.5	564.2	57.4	28.0	1.000063
45000.0	165.3	-64.0		275.3	563.4	60.3	25.3	1.000061
45500.0	161.2	-64.2		268.9	563.1	65.0	21.3	1.000060
46000.0	157.3	-64.4		262.6	562.8	72.3	17.2	1.000058
46500.0	153.5	-64.5		256.2	562.7	79.2	13.7	1.000057
47000.0	149.7	-64.2		249.5	563.2	89.3	10.5	1.000056
47500.0	146.0	-65.2		244.5	561.8	98.6	7.8	1.000054
48000.0	142.4	-66.2		239.7	560.4	114.4	5.5	1.000053
48500.0	138.8	-67.2		234.9	559.0	114.2	4.6	1.000052
49000.0	135.4	-68.3		230.2	557.6	109.9	3.8	1.000051
49500.0	132.0	-69.3		225.6	556.3	102.7	3.8	1.000050
50000.0	128.7	-70.3		221.0	554.9	95.6	3.9	1.000049
50500.0	125.5	-71.2		216.4	553.6	69.0	4.0	1.000048
51000.0	122.3	-72.1		211.9	552.4	53.0	6.5	1.000047
51500.0	119.2	-72.7		207.2	551.5	47.8	10.6	1.000046
52000.0	116.2	-71.7		200.9	552.9	46.4	14.6	1.000045
52500.0	113.2	-70.7		194.8	554.3	51.9	16.6	1.000043
53000.0	110.4	-70.0		189.2	555.3	56.3	18.6	1.000042
53500.0	107.6	-69.0		184.4	555.5	61.1	19.3	1.000041
54000.0	104.9	-69.7		179.6	555.6	65.6	20.1	1.000040
54500.0	102.3	-69.6		175.0	555.8	69.2	20.7	1.000039
55000.0	99.7	-69.5		170.5	556.0	72.5	21.4	1.000038
55500.0	97.2	-69.1		166.0	556.5	79.0	21.5	1.000037
56000.0	94.0	-68.7		161.6	557.0	85.4	21.8	1.000036
56500.0	92.5	-68.3		157.3	557.5	90.1	21.2	1.000035
57000.0	90.2	-68.0		153.1	558.0	94.7	20.6	1.000034
57500.0	88.0	-67.6		149.1	558.6	98.7	20.8	1.000033
58000.0	85.0	-67.2		145.1	559.1	102.2	21.4	1.000032
58500.0	83.7	-66.8		141.3	559.6	107.6	21.2	1.000031
59000.0	81.6	-66.5		137.5	560.1	116.1	20.2	1.000031
59500.0	79.6	-66.1		133.9	560.6	122.9	18.9	1.000030
60000.0	77.6	-65.7		130.3	561.1	124.4	16.0	1.000029
60500.0	75.7	-65.4		126.9	561.6	122.8	13.6	1.000028
61000.0	73.8	-65.0		123.5	562.1	108.1	14.0	1.000028
61500.0	72.0	-64.6		120.2	562.6	95.6	15.3	1.000027
62000.0	70.2	-64.2		117.0	563.1	89.9	17.9	1.000026
62500.0	68.5	-64.2		114.1	563.2	85.5	20.6	1.000025
63000.0	66.8	-64.1		111.3	563.3	79.5	21.4	1.000025

STATION ALTITUDE 5412.75 F. FT MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 43

UPPER AIR DATA  
215029H043  
FAST-20/CHERRY  
TABLE 8 Con't

GEODETIC COORDINATES  
32.89927 LAT DEG  
136.40591 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	63.2	-63.1		108.1	564.7	74.1	22.5	1.000024
64000.0	63.6	-62.0		104.9	566.2	73.0	22.8	1.000023
64500.0	62.1	-60.9		101.9	567.6	72.8	22.8	1.000023
65000.0	60.6	-59.0		98.9	569.1	74.8	22.6	1.000022
65500.0	59.1	-59.2		96.3	569.8	79.9	22.0	1.000021
66000.0	57.7	-50.9		93.9	570.2	85.3	21.6	1.000021
66500.0	56.3	-58.6		91.5	570.6	86.8	21.6	1.000020
67000.0	55.0	-58.3		89.2	571.0	88.3	21.7	1.000020
67500.0	53.7	-58.1		87.0	571.4	89.0	22.2	1.000019
68000.0	52.4	-57.8		84.8	571.7	89.2	23.0	1.000019
68500.0	51.2	-57.5		82.7	572.1	89.8	23.7	1.000018
69000.0	50.0	-57.2		80.6	572.5	93.6	23.7	1.000018
69500.0	48.8	-57.0		78.6	572.7	97.4	23.8	1.000018
70000.0	47.6	-56.8		76.7	573.0	101.9	23.6	1.000017
70500.0	46.5	-56.6		74.9	573.2	106.9	23.3	1.000017
71000.0	45.4	-56.5		73.0	573.5	111.8	23.1	1.000016
71500.0	44.4	-56.3		71.3	573.7	115.3	21.9	1.000016
72000.0	43.3	-56.1		69.5	574.0	119.2	20.9	1.000015
72500.0	42.3	-55.9		67.8	574.2	118.8	20.1	1.000015
73000.0	41.3	-55.7		66.2	574.5	115.0	19.6	1.000015
73500.0	40.3	-55.5		64.6	574.7			1.000014
74000.0	39.4	-55.3		63.0	575.0			1.000014
74500.0	38.5	-55.2		61.5	575.2			1.000014

STATION ALTITUDE 5912.75 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 43

MANDATORY LEVELS  
2150290043  
FAST-28/CHILDRY  
TABLE 9

GEODLIC COORDINATES  
32.89927 LAT DEG  
136.40591 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5137.	22.4	12.9	55.	340.3	3.6
800.0	6059.	19.1	9.1	52.	173.9	0.3
750.0	8670.	15.3	5.8	53.	198.2	4.7
700.0	10576.	10.7	4.4	65.	322.5	1.7
650.0	12592.	6.6	3.3	80.	11.5	4.4
600.0	14735.	1.9	1.2	95.	359.8	8.8
550.0	17027.	-1.9	-2.3	97.	320.5	3.9
500.0	19498.	-6.6	-9.3	81.	350.3	4.4
450.0	22181.	-10.9	-12.6	87.	19.4	9.4
400.0	25122.	-16.8	-21.0	70.	22.2	13.0
350.0	28375.	-23.1	-37.3	25.	36.9	10.6
300.0	32018.	-31.5	-38.8	48.	35.4	11.2
250.0	36159.	-42.0			50.9	18.2
200.0	40977.	-54.8			62.8	24.0
175.0	43732.	-62.0			56.4	29.3
150.0	46832.	-64.1			87.7	10.9
125.0	50430.	-71.3			66.9	4.9
100.0	54770.	-69.5			72.0	21.3
80.0	59173.	-66.2			122.3	19.8
70.0	61841.	-64.2			89.7	18.0
60.0	64962.	-59.4			76.5	22.4
50.0	68727.	-57.2			93.3	23.7
40.0	73376.	-55.5				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.10 FEET MSL  
 3 AUG. 83 0655 MDT  
 ASCENSION NO. 106

SIGNIFICANT LEVEL DATA  
 2150030104  
 JALLEN  
 TABLE 10

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT
101.3	4051.0	21.0	17.3	82.0
977.8	4190.7	22.1	14.7	63.0
867.0	4335.4	22.8	14.0	60.0
750.0	5102.2	21.7	13.0	57.0
776.7	7346.3	15.9	0.3	57.0
700.0	10539.7	10.5	-4.6	57.0
693.1	10211.3	10.4	4.1	55.0
664.9	11942.5	6.7	3.3	79.0
650.2	12544.9	4.5	2.0	84.0
564.8	16387.5	-4.8	-1.2	97.0
552.0	17355.8	-3.0	-3.5	96.0
500.0	19464.4	-6.5	-6.9	97.0
460.8	21549.7	-10.3	-11.1	96.0
453.1	21976.6	-10.8	-11.2	97.0
435.8	22959.5	-12.4	-13.8	89.0
400.0	25102.0	-15.9	-21.1	64.0
384.9	26060.4	-17.3	-23.2	51.0
377.7	26505.4	-18.9	-25.6	53.0
371.7	26910.0	-19.4	-28.8	43.0
359.9	29072.1	-24.3	-37.2	29.0
314.1	30953.7	-29.3	-36.4	50.0
300.0	32027.6	-32.2	-39.5	48.0
277.5	33823.5	-36.5	-43.7	47.0
264.5	34703.3	-39.3	-44.2	59.0
250.0	36175.0	-42.7		
207.0	41002.6	-55.2		
186.7	42436.4	-58.8		
156.4	46047.7	-65.3		
150.0	46886.4	-64.3		
129.1	50019.5	-71.2		
119.1	51473.7	-73.2		
111.5	53711.8	-71.9		
104.5	53972.7	-71.9		
100.0	54815.4	-68.3		
70.0	61973.5	-51.5		
66.5	63016.0	-63.9		
59.8	65186.7	-59.9		
55.3	66720.0	-60.1		
50.0	67880.9	-58.5		
35.5	76071.0	-54.1		

STATION ALTITUDE 4051.00 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 105

SIGNIFICANT LEVEL DATA  
2150030105  
JALLEN

GEODETIC COORDINATES  
33.10712 LAT DEG  
106.49511 LON DEG

TABLE 10 Cont'd

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
30.0	72690.7	-45.2		
27.6	61691.4	-44.8		
20.0	54536.2	-45.5		
17.7	41242.6	-47.7		

STATION ALTITUDE 4051.0 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 100

UPPER AIR DATA  
215003106  
JALLEN

GEODETIC COORDINATES  
33.10712 LAT DEG  
106.44511 LONG DEG

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	661.6	11.0	17.6	22.0	1035.2	671.1	0.0	1.000320
4500.0	666.1	12.7	14.6	50.3	1014.6	672.6	27.9	1.000296
5000.0	656.0	12.1	13.3	57.5	999.8	671.6	27.9	1.000284
5500.0	646.1	11.1	12.3	57.0	985.8	670.5	27.9	1.000282
6000.0	636.5	10.1	11.4	57.0	972.1	669.2	36.8	1.000276
6500.0	626.1	9.2	10.4	57.0	958.5	668.0	64.1	1.000270
7000.0	616.9	8.2	9.5	57.0	945.2	666.8	317.4	1.000256
7500.0	607.0	7.2	8.6	57.0	932.0	665.6	267.3	1.000258
8000.0	597.1	6.1	7.9	56.2	919.0	664.3	277.4	1.000253
8500.0	587.4	5.0	7.3	54.9	906.1	663.0	265.8	1.000244
9000.0	578.0	3.9	6.7	61.7	893.5	661.7	256.6	1.000244
9500.0	568.7	2.8	6.0	63.4	881.0	660.4	242.1	1.000240
10000.0	559.8	1.7	5.4	55.1	868.8	659.1	237.5	1.000235
10500.0	551.0	0.6	4.7	66.9	856.7	657.7	231.9	1.000231
11000.0	542.3	-0.8	4.0	67.3	843.7	656.4	318.7	1.000227
11500.0	533.3	-1.1	3.7	73.5	831.2	654.9	340.2	1.000226
12000.0	524.5	-2.3	3.2	79.5	822.9	652.9	347.9	1.000221
12500.0	515.0	-3.4	2.1	83.6	813.3	650.7	351.7	1.000216
13000.0	505.2	-4.9	1.7	85.6	800.5	649.7	351.5	1.000212
13500.0	495.3	-6.1	1.2	87.3	787.7	648.9	352.7	1.000209
14000.0	485.6	-7.4	0.8	89.1	775.0	648.0	350.1	1.000205
14500.0	476.1	-8.7	0.4	90.8	762.6	647.2	345.1	1.000201
15000.0	466.8	-1.0	-0.0	92.5	750.3	646.3	342.0	1.000198
15500.0	457.6	-1.3	-0.5	94.3	738.3	645.5	336.6	1.000194
16000.0	448.9	-2.4	-1.0	96.0	726.5	644.6	339.8	1.000191
16500.0	440.2	-3.1	-1.5	95.9	714.7	643.8	345.2	1.000187
17000.0	431.7	-4.3	-2.3	96.5	702.1	642.9	350.4	1.000183
17500.0	423.3	-5.5	-3.0	96.2	691.7	642.0	353.4	1.000179
18000.0	414.1	-6.3	-3.8	95.1	680.8	641.0	353.9	1.000176
18500.0	405.2	-7.4	-4.9	96.4	670.6	639.5	349.9	1.000172
19000.0	396.6	-8.5	-5.9	96.7	660.6	638.3	344.7	1.000168
19500.0	407.3	-9.6	-7.1	97.0	650.7	636.9	338.3	1.000164
20000.0	418.0	-10.6	-8.0	97.3	640.7	635.7	334.2	1.000151
20500.0	428.1	-11.6	-9.0	97.5	630.8	634.4	336.7	1.000157
21000.0	438.0	-12.7	-10.0	97.7	621.1	633.1	336.5	1.000154
21500.0	447.7	-13.7	-11.0	98.0	611.5	631.8	335.5	1.000151
22000.0	457.7	-14.6	-12.0	98.0	602.9	631.0	344.4	1.000148
22500.0	467.6	-15.7	-13.0	98.7	593.1	630.5	359.4	1.000144
23000.0	475.1	-16.5	-14.0	98.5	580.4	629.6	36.9	1.000141
23500.0	482.5	-17.3	-15.0	98.7	570.8	628.5	14.7	1.000137



STATION ALTITUDE 4051.0 FEET MSL  
3 AUG. 65 0655 MDT  
ASCENSION NO. 106

UPPER AIR DATA  
210000106  
JALLEN

GEODEIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

TABLE 11 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	416.0	-14.1	-17.5	75.9	561.4	627.5	16.8	10.5	1.000134
24500.0	414.8	-14.9	-19.0	71.0	552.1	626.4	17.1	11.5	1.000131
25000.0	411.6	-15.7	-20.7	65.2	542.9	625.4	17.3	12.6	1.000126
25500.0	393.5	-16.6	-22.7	58.0	533.9	624.3	18.0	12.5	1.000125
26000.0	385.7	-17.4	-24.9	51.8	525.0	623.3	19.0	12.1	1.000122
26500.0	375.0	-18.9	-25.6	55.0	517.5	621.4	19.0	11.9	1.000120
27000.0	370.3	-19.5	-29.1	42.4	508.5	620.5	19.1	11.9	1.000116
27500.0	362.6	-20.7	-30.9	39.2	500.4	619.1	17.5	12.1	1.000114
28000.0	355.4	-21.9	-32.9	36.0	492.4	617.7	17.7	12.7	1.000112
28500.0	348.1	-23.2	-34.6	32.7	484.5	616.3	17.9	13.3	1.000110
29000.0	341.0	-24.1	-36.9	29.5	476.9	614.9	16.4	13.4	1.000108
29500.0	333.9	-25.4	-36.7	33.7	469.4	613.3	15.0	13.6	1.000106
30000.0	327.0	-26.5	-36.4	39.3	462.1	611.5	15.5	13.9	1.000105
30500.0	320.2	-28.1	-36.3	44.9	455.0	610.0	16.6	14.4	1.000103
31000.0	313.5	-29.4	-36.5	49.9	447.9	608.3	18.9	14.7	1.000101
31500.0	306.6	-30.5	-37.9	49.0	440.7	606.6	22.9	15.1	1.000100
32000.0	300.4	-32.1	-39.4	46.1	434.0	604.9	26.7	15.5	1.000096
32500.0	293.9	-33.5	-40.6	47.7	427.8	603.4	29.3	14.6	1.000096
33000.0	287.6	-34.5	-41.7	47.5	419.8	601.9	32.7	13.6	1.000095
33500.0	281.4	-35.7	-42.9	47.4	412.8	600.3	33.8	12.7	1.000093
34000.0	275.3	-37.0	-43.7	49.0	406.1	598.8	35.7	11.7	1.000091
34500.0	269.4	-38.5	-44.0	54.5	399.4	597.1	52.8	10.7	1.000090
35000.0	263.5	-39.6	-45.2	54.5**	392.9	595.5	55.8	11.4	1.000086
35500.0	257.6	-40.9	-51.2	31.3**	386.4	593.7	38.8	12.4	1.000086
36000.0	252.0	-42.2	-63.1	6.1**	380.1	592.0	44.2	14.3	1.000085
36500.0	246.3	-43.5			373.6	590.3	49.4	17.0	1.000083
37000.0	240.6	-44.6			367.2	588.7	54.1	19.1	1.000082
37500.0	235.1	-46.1			360.5	587.0	58.7	20.3	1.000080
38000.0	229.8	-47.4			354.6	585.3	62.0	21.6	1.000079
38500.0	224.5	-48.7			348.5	583.6	62.0	22.0	1.000076
39000.0	219.4	-50.0			342.5	581.9	62.0	22.4	1.000076
39500.0	214.4	-51.3			336.7	580.3	60.9	22.9	1.000075
40000.0	209.5	-52.6			330.9	578.6	58.7	23.5	1.000074
40500.0	204.7	-53.9			325.2	576.9	57.3	24.2	1.000072
41000.0	200.0	-55.2			319.7	575.1	55.7	24.8	1.000071
41500.0	195.5	-56.4			314.2	573.5	60.0	25.4	1.000070
42000.0	191.7	-57.7			308.3	571.8	59.1	26.4	1.000069
42500.0	186.1	-58.9			302.7	570.2	58.3	27.5	1.000067
43000.0	181.0	-59.5			296.6	569.0	57.7	27.8	1.000066
43500.0	177.2	-60.7			290.6	567.8	57.2	32.2	1.000065

\*\* AT LEAST ONE ASSIGNED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 106

UPPER AIR DATA  
2150030136  
JALLEN  
TABLE 11 Cont'd

GEODEIC COORDINATES  
33.16712 LAT DEG  
106.44511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	172.9	-61.6		284.8	566.6	60.1	30.7	1.000063
44500.0	166.7	-62.5		279.1	565.4	64.5	28.4	1.000062
45000.0	160.6	-63.4		273.5	564.2	67.6	25.3	1.000061
45500.0	154.7	-64.3		268.0	563.0	70.5	21.8	1.000060
46000.0	150.8	-65.2		262.6	561.8	74.4	18.7	1.000058
46500.0	142.9	-66.8		255.6	562.4	80.7	15.1	1.000057
47000.0	149.2	-64.5		249.1	562.7	89.2	12.1	1.000055
47500.0	145.4	-65.6		244.2	561.2	104.9	9.3	1.000054
48000.0	141.3	-66.7		239.4	559.7	130.9	7.7	1.000053
48500.0	136.3	-67.9		234.7	558.2	155.5	7.3	1.000052
49000.0	134.9	-69.0		230.1	556.7	165.2	5.4	1.000051
49500.0	131.5	-70.1		225.6	555.2	184.4	3.8	1.000050
50000.0	128.2	-71.2		221.1	553.7	176.4	3.5	1.000049
50500.0	125.0	-71.9		216.3	552.7	167.3	3.4	1.000048
51000.0	121.8	-72.6		211.5	551.7	137.5	3.8	1.000047
51500.0	118.7	-73.1		206.7	551.0	109.1	5.6	1.000046
52000.0	115.7	-72.6		200.9	551.7	84.9	8.2	1.000045
52500.0	112.7	-72.1		195.3	552.4	69.6	12.1	1.000043
53000.0	109.9	-71.9		190.2	552.7	63.7	15.5	1.000042
53500.0	107.1	-71.9		185.3	552.7	60.8	18.4	1.000041
54000.0	104.4	-71.3		180.5	552.8	60.6	21.2	1.000040
54500.0	101.7	-70.0		174.4	555.3	62.0	23.8	1.000039
55000.0	99.2	-66.7		169.0	557.1	65.5	25.1	1.000038
55500.0	96.7	-68.3		164.5	557.6	71.8	25.1	1.000037
56000.0	94.3	-67.9		160.2	558.1	78.7	24.7	1.000036
56500.0	92.0	-67.6		155.9	558.6	87.2	23.5	1.000035
57000.0	89.7	-67.2		151.3	559.1	94.0	23.2	1.000034
57500.0	87.5	-66.8		147.8	559.6	93.7	24.0	1.000033
58000.0	85.4	-66.3		143.9	560.1	94.0	24.8	1.000032
58500.0	83.3	-66.1		140.1	560.6	98.0	24.8	1.000031
59000.0	81.2	-65.7		135.4	561.1	101.9	25.0	1.000030
59500.0	79.2	-65.3		132.9	561.6	107.2	27.5	1.000030
60000.0	77.3	-65.0		129.3	562.1	113.8	20.2	1.000029
60500.0	75.3	-64.6		125.9	562.6	111.7	17.0	1.000028
61000.0	73.3	-64.2		122.5	563.1	105.3	13.8	1.000027
61500.0	71.7	-63.9		119.3	563.6	98.9	13.0	1.000027
62000.0	69.9	-63.3		116.7	564.1	97.0	13.1	1.000026
62500.0	68.2	-63.7		113.4	563.8	89.0	14.4	1.000025
63000.0	66.5	-63.9		110.8	563.6	87.1	16.6	1.000025
63500.0	64.9	-63.6		107.6	564.8	85.0	18.5	1.000024

STATION ALTITUDE 4051.00 FEET MSL  
3 AUG. 85 0655 MDT  
ASCENSION NO. 106

UPPER AIR DATA  
2150030106  
JALLEN  
TABLE 11 Cont'd

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.69511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	65.4	-42.1		104.6	566.0	81.5	19.9	1.000023
64500.0	61.8	-41.2		101.6	567.2	78.4	21.3	1.000023
65000.0	60.3	-40.2		98.7	568.5	80.2	21.6	1.000022
65500.0	58.9	-39.9		96.2	569.9	81.9	22.0	1.000021
66000.0	57.5	-40.0		93.9	568.8	81.6	20.7	1.000021
66500.0	56.1	-40.1		91.7	568.7	80.5	18.9	1.000020
67000.0	54.8	-39.9		89.5	568.6	78.0	17.2	1.000020
67500.0	53.5	-39.6		87.2	569.4	73.2	15.6	1.000019
68000.0	52.2	-39.2		84.9	569.9	67.7	14.3	1.000019
68500.0	50.9	-38.6		82.4	570.4	68.1	14.0	1.000016
69000.0	49.7	-38.4		80.7	570.9	68.4	13.8	1.000016
69500.0	48.5	-38.1		78.7	571.3	66.4	13.0	1.000018
70000.0	47.4	-37.8		76.7	571.7	61.0	12.1	1.000017
70500.0	46.3	-37.5		74.8	572.1	67.3	11.8	1.000017
71000.0	45.2	-37.2		72.9	572.5	66.7	14.0	1.000016
71500.0	44.1	-36.9		71.1	572.9	69.6	17.4	1.000016
72000.0	43.1	-36.6		69.3	573.3	105.1	27.4	1.000015
72500.0	42.1	-36.3		67.6	573.7	107.2	34.5	1.000015
73000.0	41.1	-36.0		65.9	574.1	107.1	47.1	1.000015
73500.0	40.1	-35.7		64.3	574.5	103.5	46.7	1.000014
74000.0	39.2	-35.4		62.7	574.9	99.7	46.7	1.000014
74500.0	38.3	-35.1		61.1	575.3	97.2	42.3	1.000014
75000.0	37.4	-34.8		59.6	575.7	94.9	35.1	1.000013
75500.0	36.5	-34.6		58.1	576.1	91.5	27.9	1.000013
76000.0	35.6	-34.1		56.7	576.5	90.1	28.2	1.000013
76500.0	34.8	-33.6		55.2	577.5	88.9	28.5	1.000012
77000.0	34.0	-33.6		53.7	578.6	87.6	29.2	1.000012
77500.0	33.2	-31.6		52.1	579.6	86.2	30.6	1.000012
78000.0	32.3	-31.6		50.7	580.7	85.0	32.0	1.000011
78500.0	31.7	-30.1		49.5	581.8	85.9	31.8	1.000011
79000.0	31.0	-29.3		48.2	582.8	85.1	30.7	1.000011
79500.0	30.3	-28.5		46.9	583.9	80.4	29.7	1.000010
80000.0	29.6	-27.7		45.7	585.0	81.4	27.3	1.000010
80500.0	28.9	-26.0		44.5	586.1	81.2	24.7	1.000010
81000.0	28.3	-26.0		43.3	587.2	84.9	22.2	1.000010
81500.0	27.6	-25.1		42.2	588.3	88.6	22.0	1.000009
82000.0	27.0	-24.6		41.2	588.5	88.1	21.7	1.000009
82500.0	26.4	-23.3		40.4	589.1	100.0	21.1	1.000009
83000.0	25.9	-23.6		39.3	587.7	107.0	20.4	1.000009
83500.0	25.2	-23.9		38.7	587.3	104.2	19.5	1.000009

STATION ALTITUDE 4051.0 FEET MSL  
3 AUG. 83 0655 MDT  
ASCENSION NO. 106

UPPER AIR DATA  
2150030106  
JALLEN  
TABLE 11 Cont'd

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE °F °C DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4000.0	24.7	-46.1		37.8	587.0	106.4	18.7	1.000006
4500.0	24.1	-46.6		37.0	586.6	109.1	17.9	1.000008
5000.0	23.6	-46.7		36.2	585.2	111.9	17.1	1.000008
5500.0	23.0	-47.0		35.5	585.8	110.4	16.5	1.000006
6000.0	22.5	-47.3		34.7	585.5	104.8	16.1	1.000008
6500.0	22.0	-47.6		34.0	585.1	98.9	15.3	1.000008
7000.0	21.5	-47.9		33.3	584.7	97.3	16.2	1.000007
7500.0	21.0	-48.2		32.5	584.3	99.2	16.9	1.000007
8000.0	20.5	-48.5		31.9	584.0	100.5	17.6	1.000007
8500.0	20.1	-48.7		31.2	583.6	93.9	24.4	1.000007
9000.0	19.6	-48.6		30.5	583.7	89.4	32.6	1.000007
9500.0	19.2	-48.4		29.7	584.0	86.7	41.0	1.000007
99000.0	16.7	-43.2		29.0	584.3			1.000006
99500.0	16.3	-43.0		28.3	584.5			1.000006
99900.0	17.9	-47.8		27.7	584.8			1.000006

STATION ALTITUDE 4051.00 FEET MSL  
3 AUG. 85 0655 MDT  
ASCENSION NO. 100

MANDATORY LEVELS  
215003010A  
JALLEN  
TABLE 12

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL.HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
500.0	5090.	21.9	17.0	57.	27.9	1.4
400.0	6319.	18.5	9.9	57.	59.6	1.2
300.0	8626.	14.7	7.2	60.	263.7	10.2
200.0	10530.	10.5	4.6	67.	294.2	4.9
150.0	12540.	4.5	2.0	84.	352.1	6.5
100.0	14677.	1.5	.2	91.	347.7	12.1
50.0	16764.	-1.8	-2.2	97.	330.3	7.2
50.0	19433.	-6.5	-6.9	97.	339.0	4.4
50.0	22117.	-11.1	-11.6	96.	349.8	4.4
700.0	25061.	-15.9	-21.1	64.	17.3	12.7
50.0	28322.	-22.7	-34.3	34.	17.8	13.1
100.0	31965.	-32.2	-39.5	48.	25.8	15.5
50.0	36027.	-42.7			46.2	15.1
700.0	40904.	-55.2			58.7	24.8
175.0	43669.	-61.2			58.2	31.9
150.0	45763.	-64.3			86.4	12.8
125.0	50753.	-71.9			167.8	3.4
100.0	54668.	-85.8			63.1	25.2
80.0	59066.	-85.3			104.5	23.7
70.0	61763.	-63.5			97.6	13.1
60.0	64863.	-67.0			50.5	21.7
50.0	68624.	-58.5			68.3	13.9
40.0	73258.	-55.6			103.4	46.7
30.0	79353.	-48.2			90.9	29.1
25.0	83334.	-46.0			105.0	19.3
20.0	88175.	-48.8			93.3	25.2

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3912.75 FEET MSL  
 3 AUG. 83 1004 MDT  
 ASCENSION NO. 44

SIGNIFICANT LEVEL DATA  
 2150290044  
 EAST-28/CHERRY  
 TABLE 13

GEODETIC COORDINATES  
 32.89927 LAT DEG  
 136.40591 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT
887.8	3912.7	31.0	15.0
884.7	4014.9	26.0	13.5
880.0	4169.2	25.6	14.7
850.0	5169.4	23.7	12.0
750.2	8377.6	17.1	6.3
700.0	10633.0	11.3	4.5
691.8	10956.7	10.6	5.6
655.0	12448.9	7.6	4.0
600.1	14449.9	3.1	1.9
564.4	16427.5	-4.8	-1.2
521.4	18497.4	-4.8	-6.6
500.0	19581.2	-5.8	-10.9
466.9	21336.6	-9.5	-11.2
451.7	22175.4	-11.7	-12.7
446.7	22457.7	-9.2	-10.7
443.3	22651.7	-11.2	-12.8
400.0	25224.2	-16.4	-21.9
392.5	26327.7	-18.5	-25.1
370.3	27121.6	-20.0	-26.3
356.5	28044.6	-22.4	-30.6
336.5	29432.5	-25.4	-36.6
300.0	32140.0	-31.9	-40.8
267.3	34789.6	-38.4	-48.8
250.0	36792.7	-42.2	
200.0	41129.1	-54.9	
192.3	41952.6	-56.8	
173.5	44870.1	-61.9	
162.8	45380.0	-60.1	
150.0	47051.3	-63.5	
134.9	49170.1	-69.3	
119.7	51504.7	-72.7	
116.1	52097.6	-71.7	
114.9	52300.8	-69.9	
100.0	55030.2	-69.7	
92.2	56634.7	-67.8	
70.6	59569.1	-65.4	
70.8	62181.6	-60.5	
65.2	63645.8	-59.6	
59.8	65430.9	-59.8	
50.0	69154.6	-56.5	

STATION ALTITUDE 3412.75 FEET MSL  
3 AUG. 83 1004 MDT  
ASCENSION NO. 44

SIGNIFICANT LEVEL DATA  
2150290044  
EAST-28/CHERRY  
TABLE 13 Cont'd

GEODETIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

PRESSURE	GEOMETRIC	TEMPERATURE	REL. HUM.
	ALTITUDE	AIR DEWPOINT	PERCENT
	MILLIBARS MSL FEET	DEGREES CENTIGRADE	
34.2	74275.9	-55.0	

STATION ALTITUDE 3912.75 FEET MSL  
3 AUG. 83 1004 MDT  
ASCENSION NO. 49

UPPER AIR DATA  
2150290044  
EAST-28/CHERRY  
TABLE 14

GEODETTIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

GEODETTIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3912.7	887.8	31.0	15.0	38.0	1009.5	001.9	.0	1.000295
4000.0	885.2	26.7	13.8	44.0	1021.3	676.9	105.8	1.000294
4500.0	870.0	25.0	13.8	50.0	1009.6	675.0	105.8	1.000293
5000.0	855.0	24.0	12.5	48.5	995.9	673.7	105.8	1.000284
5500.0	840.2	23.0	11.5	40.1	982.2	672.5	105.8	1.000277
6000.0	825.5	22.0	10.6	40.3	968.7	671.2	137.6	1.000271
6500.0	811.1	21.0	9.7	48.4	955.3	670.0	160.0	1.000266
7000.0	796.9	19.9	8.8	40.6	942.2	668.7	175.8	1.000260
7500.0	783.0	18.9	7.9	48.7	929.2	667.5	184.5	1.000254
8000.0	769.4	17.9	7.0	48.9	916.4	666.2	188.1	1.000249
8500.0	755.9	16.8	6.2	49.0	903.9	664.9	195.6	1.000244
9000.0	742.4	15.5	5.9	52.9	891.7	663.5	203.1	1.000241
9500.0	729.1	14.2	5.6	56.0	879.8	662.0	217.9	1.000238
10000.0	716.1	12.9	5.1	59.1	868.0	660.5	235.0	1.000234
10500.0	703.4	11.6	4.7	62.2	856.4	659.0	260.3	1.000231
11000.0	690.7	10.5	5.5	71.2	844.0	657.8	300.2	1.000231
11500.0	678.2	9.5	5.0	73.5	831.7	656.6	331.4	1.000227
12000.0	665.9	8.5	4.5	75.9	819.6	655.4	350.3	1.000223
12500.0	653.8	7.5	4.0	78.4	807.7	654.2	1.3	1.000219
13000.0	641.7	6.4	3.5	81.9	796.1	652.8	4.6	1.000216
13500.0	629.9	5.2	3.0	85.4	784.7	651.5	6.0	1.000212
14000.0	618.3	4.1	2.4	88.9	773.5	650.1	236.5	1.000208
14500.0	607.0	3.0	1.9	92.1	762.3	648.8	209.7	1.000205
15000.0	595.6	2.0	1.1	93.4	750.9	647.6	213.1	1.000200
15500.0	584.5	1.0	.3	94.7	739.6	646.4	26.5	1.000196
16000.0	573.6	.0	-.5	95.9	728.6	645.2	26.8	1.000192
16500.0	562.8	-.9	-1.4	96.6	717.6	644.0	27.0	1.000188
17000.0	552.2	-1.9	-2.7	94.2	706.7	642.7	19.3	1.000183
17500.0	541.7	-2.9	-4.0	91.8	696.0	641.5	343.7	1.000179
18000.0	531.4	-3.0	-5.3	89.4	685.4	640.3	322.0	1.000174
18500.0	521.3	-4.8	-6.6	87.0	675.0	639.0	324.0	1.000170
19000.0	511.4	-5.3	-8.5	77.7	663.4	638.4	317.3	1.000165
19500.0	501.6	-5.7	-10.6	60.5	652.0	637.7	311.0	1.000160
20000.0	491.9	-6.7	-10.9	71.8	641.8	636.6	307.2	1.000157
20500.0	482.4	-7.7	-11.0	77.5	631.8	635.3	309.6	1.000155
21000.0	473.1	-8.8	-11.1	83.2	622.1	634.1	320.7	1.000153
21500.0	463.9	-9.9	-11.5	80.0	612.7	632.7	327.0	1.000150
22000.0	454.8	-11.2	-12.4	91.0	603.8	631.1	330.8	1.000148
22500.0	446.0	-9.6	-11.1	88.8	588.2	633.1	341.0	1.000145
23000.0	437.2	-11.9	-14.0	84.5	581.9	630.2	350.4	1.000141



STATION ALTITUDE 3912.75 F. LT NSL  
3 AUG. 83 1004 MDT  
ASCENSION NO. 44

UPPER AIR DATA  
2150290044  
FAST-28/CHERRY  
TABLE 14 Cont'd

GEODEIC COORDINATES  
32.89927 LAT DEG  
136.40591 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TH)	SPEED KNOTS	INDEX OF REFRACTION	
23500.0	420.5	-12.9	-15.7	79.4	572.7	629.0	359.4	10.4	1.000138
24000.0	420.1	-13.9	-17.5	74.4	563.7	627.7	14.1	11.5	1.000134
24500.0	411.7	-14.9	-19.3	69.3	554.8	626.4	30.2	13.5	1.000131
25000.0	403.6	-15.9	-21.1	64.3	546.1	625.1	37.2	15.1	1.000128
25500.0	395.6	-16.9	-22.7	60.5	537.3	623.9	41.8	16.3	1.000125
26000.0	387.6	-17.9	-24.1	57.8	520.5	622.7	41.9	14.9	1.000123
26500.0	379.8	-18.8	-25.3	56.2	519.9	621.5	44.3	13.9	1.000120
27000.0	372.1	-19.8	-26.1	56.8	511.3	620.4	50.2	13.8	1.000118
27500.0	364.6	-21.0	-20.0	52.9	503.3	618.8	52.4	13.9	1.000116
28000.0	357.2	-22.3	-30.4	47.5	495.7	617.2	52.2	14.0	1.000113
28500.0	349.8	-23.4	-32.5	42.7	487.7	615.8	51.3	13.9	1.000111
29000.0	342.6	-24.5	-34.6	38.1	479.8	614.5	50.2	13.8	1.000109
29500.0	335.5	-25.6	-36.8	33.7	472.0	613.1	48.1	13.6	1.000107
30000.0	328.5	-26.8	-38.6	31.3	464.3	611.6	46.3	13.4	1.000105
30500.0	321.6	-28.0	-40.5	28.9	456.8	610.1	45.4	13.6	1.000103
31000.0	314.9	-29.2	-42.3	26.5	449.5	608.6	46.1	13.9	1.000101
31500.0	308.3	-30.4	-44.2	24.1	442.2	607.1	48.1	14.4	1.000099
32000.0	301.8	-31.6	-46.2	21.7	435.1	605.6	48.7	14.8	1.000098
32500.0	295.3	-32.0	-46.8	22.9	428.0	604.0	49.1	15.2	1.000096
33000.0	289.0	-34.0	-46.9	25.5	420.9	602.5	50.1	16.0	1.000094
33500.0	282.7	-35.2	-47.1	28.2	414.0	600.9	50.9	17.0	1.000093
34000.0	276.7	-36.5	-47.4	30.8	407.1	599.4	51.6	18.2	1.000091
34500.0	270.7	-37.7	-47.8	33.5	400.4	597.8	53.0	19.1	1.000090
35000.0	264.8	-38.9	-49.8	30.1**	393.8	596.2	54.5	20.0	1.000088
35500.0	259.0	-40.2	-55.0	18.5**	307.3	594.6	58.5	20.9	1.000086
36000.0	253.3	-41.5	-63.7	6.0**	380.0	593.8	62.2	21.9	1.000085
36500.0	247.6	-42.7			374.4	591.3	63.4	22.7	1.000083
37000.0	242.0	-44.1			368.0	509.7	62.8	23.2	1.000082
37500.0	236.5	-45.4			361.6	508.0	58.9	23.1	1.000081
38000.0	231.1	-46.7			355.4	506.3	56.0	23.7	1.000079
38500.0	225.8	-48.0			349.4	504.6	54.0	24.7	1.000078
39000.0	220.6	-49.3			343.4	502.9	54.4	25.4	1.000076
39500.0	215.6	-50.6			337.5	501.1	55.4	25.9	1.000075
40000.0	210.7	-51.9			331.8	579.4	57.9	25.8	1.000074
40500.0	205.9	-53.2			326.2	577.7	60.8	25.5	1.000073
41000.0	201.2	-54.6			320.6	576.0	61.8	25.9	1.000071
41500.0	196.5	-55.8			314.9	574.4	62.6	26.4	1.000070
42000.0	191.9	-56.9			309.1	572.9	59.3	27.9	1.000069
42500.0	187.3	-58.1			303.4	571.3	56.3	29.5	1.000068
43000.0	182.8	-59.3			297.8	569.7	56.2	30.7	1.000066

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 5912.75 F LT MSL  
3 AUG. 83  
ASCENSION NO. 49 1004 MDT

UPPER AIR DATA  
2150290044  
EAST-28/CHERRY  
TABLE 14 Cont'd

GEOLOGIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.4	-60.5		292.3	568.1	50.3	31.8	1.000005
44000.0	174.1	-61.7		206.9	566.5	58.9	28.6	1.000064
44500.0	169.4	-61.3		279.5	567.0	62.8	24.7	1.000062
45000.0	165.8	-60.6		271.9	567.9	69.8	20.0	1.000061
45500.0	161.8	-60.3		264.9	568.3	81.3	15.5	1.000059
46000.0	157.9	-61.4		259.0	567.0	90.9	14.9	1.000058
46500.0	154.1	-62.4		254.7	565.6	99.4	15.1	1.000057
47000.0	150.4	-63.4		249.7	564.2	101.6	13.7	1.000056
47500.0	146.7	-64.7		245.1	562.4	103.1	12.2	1.000055
48000.0	143.0	-66.1		240.7	560.6	99.7	9.9	1.000054
48500.0	139.5	-67.5		236.3	558.7	91.1	7.5	1.000053
49000.0	136.1	-68.8		232.0	556.9	83.5	7.2	1.000052
49500.0	132.6	-69.8		227.2	555.6	82.4	8.8	1.000051
50000.0	129.3	-70.5		222.3	554.6	80.7	10.4	1.000050
50500.0	126.0	-71.2		217.4	553.6	77.0	12.2	1.000048
51000.0	122.8	-72.0		212.7	552.6	72.8	14.0	1.000047
51500.0	119.7	-72.7		208.1	551.6	64.7	16.1	1.000046
52000.0	116.7	-71.9		201.9	552.7	63.7	18.2	1.000045
52500.0	113.7	-69.9		194.9	555.4	69.7	20.0	1.000043
53000.0	110.9	-69.0		190.0	555.5	74.7	21.7	1.000042
53500.0	108.1	-69.8		185.2	555.5	79.2	23.3	1.000041
54000.0	105.4	-69.8		180.5	555.6	82.8	24.6	1.000040
54500.0	102.7	-69.7		175.9	555.6	85.0	24.5	1.000039
55000.0	100.2	-69.7		171.5	555.7	87.3	24.5	1.000030
55500.0	97.7	-69.1		166.7	556.4	95.6	21.5	1.000037
56000.0	95.2	-68.6		162.1	557.2	100.2	19.1	1.000036
56500.0	92.8	-68.0		157.6	558.1	113.1	16.6	1.000035
57000.0	90.5	-67.5		153.4	558.7	120.0	14.1	1.000034
57500.0	88.3	-67.1		149.3	559.2	123.1	12.5	1.000033
58000.0	86.1	-66.7		145.3	559.8	116.6	12.1	1.000032
58500.0	84.0	-66.3		141.4	560.3	109.8	11.9	1.000031
59000.0	81.9	-65.9		137.6	560.9	101.1	13.7	1.000031
59500.0	79.9	-65.5		134.0	561.4	94.5	15.7	1.000030
60000.0	77.9	-64.6		130.2	562.6	90.2	17.5	1.000029
60500.0	76.0	-63.7		126.4	563.9	87.2	19.3	1.000028
61000.0	74.2	-62.7		122.8	565.1	85.1	21.1	1.000027
61500.0	72.4	-61.8		119.3	566.4	89.1	22.7	1.000027
62000.0	70.6	-60.8		115.9	567.6	92.6	24.5	1.000026
62500.0	68.9	-60.3		112.0	568.4	95.5	25.2	1.000025
63000.0	67.3	-60.0		109.9	568.8	98.3	25.2	1.000024

STATION ALTITUDE 3912.75 F (T MSL)  
 3 AUG. 83 1004 MDT  
 ASCENSION NO. 44

UPPER AIR DATA  
 2150290044  
 EAST-28/CHERRY  
 TABLE 14 Cont'd

GEODLTIC COORDINATES  
 32.89927 LAT DEG  
 136.40591 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	65.7	-59.7		107.2	569.2	101.2	25.2	1.000024
64000.0	64.1	-59.6		104.0	569.3	101.4	24.8	1.000023
64500.0	62.6	-59.7		102.1	569.2	101.5	24.4	1.000023
65000.0	61.1	-59.8		99.7	569.1	101.6	24.1	1.000022
65500.0	59.6	-59.7		97.3	569.1	101.8	23.7	1.000022
66000.0	58.2	-59.3		94.8	569.7	101.9	23.4	1.000021
66500.0	56.8	-58.9		92.3	570.3	102.6	22.7	1.000021
67000.0	55.5	-58.4		90.0	570.9	103.3	22.1	1.000020
67500.0	54.1	-58.0		87.0	571.5	105.1	20.6	1.000020
68000.0	52.9	-57.5		85.4	572.1	107.6	18.9	1.000019
68500.0	51.6	-57.1		83.2	572.7	110.7	17.6	1.000019
69000.0	50.4	-56.6		81.0	573.2	114.1	17.5	1.000018
69500.0	49.2	-56.4		79.1	573.6	117.5	17.5	1.000018
70000.0	48.0	-56.3		77.1	573.8	118.2	18.0	1.000017
70500.0	46.9	-56.1		75.3	573.9	117.1	18.8	1.000017
71000.0	45.8	-56.0		73.5	574.1	116.0	19.7	1.000016
71500.0	44.7	-55.8		71.7	574.3	112.8	19.1	1.000016
72000.0	43.7	-55.7		70.0	574.5	109.1	18.4	1.000016
72500.0	42.7	-55.5		68.3	574.7			1.000015
73000.0	41.7	-55.4		66.6	574.9			1.000015
73500.0	40.7	-55.2		65.0	575.1			1.000014
74000.0	39.7	-55.1		63.4	575.3			1.000014

STATION ALTITUDE 3212.75 F. FT MSL  
3 AUG. 83 1004 MDT  
ASCENSION NO. 44

MANDATORY LEVELS  
2150290044  
EAST-28/CHERRY  
TABLE 15

GEODETTIC COORDINATES  
32.89927 LAT DEG  
136.40591 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR	DEWPOINT	PERCENT	DIRECTION	SPEED
		DEGREES	CENTIGRADE		(DEGREES) (TN)	KNOTS
850.0	5166.	23.7	12.0	48.	105.8	1.3
800.0	6895.	20.2	9.0	49.	173.0	3.0
750.0	8712.	16.2	6.1	51.	198.6	5.9
700.0	10623.	11.3	4.5	63.	269.3	2.9
650.0	12643.	7.1	3.8	70.	2.1	4.9
600.0	14700.	2.4	1.4	93.	209.7	.5
550.0	17084.	-2.1	-3.0	94.	15.2	2.3
500.0	19554.	-5.8	-10.9	67.	310.5	5.9
450.0	22237.	-10.9	-12.0	91.	330.2	0.3
400.0	25102.	-16.4	-21.9	62.	39.5	15.7
350.0	28437.	-23.4	-32.4	43.	51.4	13.9
300.0	32076.	-31.9	-46.8	21.	46.8	14.9
250.0	36213.	-42.2			62.9	22.4
200.0	41029.	-54.9			62.0	26.0
175.0	43788.	-61.5			50.1	29.5
150.0	46924.	-63.5			101.6	13.7
125.0	50517.	-71.5			77.2	12.7
100.0	54860.	-69.7			87.4	24.5
80.0	59272.	-65.5			95.2	15.4
70.0	61968.	-60.5			93.5	25.0
60.0	65120.	-59.8			101.7	23.9
50.0	68805.	-56.5			114.9	17.5
40.0	73555.	-55.1				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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DATE  
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